

**Paper Reference 31761H**  
**Pearson BTEC Level 3**  
**Nationals Certificate, Extended**  
**Certificate, Foundation Diploma,**  
**Diploma, Extended Diploma**

**INFORMATION TECHNOLOGY**  
**UNIT 2: CREATING SYSTEMS TO**  
**MANAGE INFORMATION**  
**(PART B)**

**Thursday 14 January 2021 – Morning**

**Time: 2 hours plus your additional**  
**time allowance.**

**YOU MUST HAVE:**

**activity6.rtf,**

**activity7.rtf,**

**partB\_database.accdb**

**or**

**partB\_database.mdb**

**V67698RA**

## **ITEMS INCLUDED WITH QUESTION PAPER**

- **Instructions to Invigilators.**
- **Instructions for Learners.**
- **Part B Set Task Brief.**

## **INSTRUCTIONS**

- **Part A and Part B contain the material for the completion of the set tasks under supervised conditions.**
- **There are 40 marks for Part A and 26 marks for Part B, giving a total mark for the set tasks of 66.**
- **Part A and Part B are specific to each series and this material must be issued only to learners who have been entered to take the tasks in the specified series.**
- **Learners MUST ONLY have access to Part B during this examination session.**

**(continued on the next page)**

**Turn over**

- **This booklet should be kept securely until the start of the 2 – hour (plus your additional time allowance) supervised assessment period.**
- **Part A materials MUST NOT be accessed during completion of Part B.**
- **Part A and Part B should be submitted together for each learner.**
- **This booklet should not be returned to Pearson.**
- **Answer ALL activities.**

## **INFORMATION**

- **The total mark for this paper is 26.**
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**Part B Set Task is on the next page.**

## **Part B SET TASK**

**Look at the Set Task Brief Book provided separately.**

**YOU ARE ADVISED TO SPEND 10 MINUTES (plus your additional time allowance) READING THE TASK SCENARIO AND THE ACTIVITIES YOU ARE TO COMPLETE.**

**YOU MAY MAKE NOTES AND/OR HIGHLIGHT INFORMATION TO USE IN THE COMPLETION OF THE DOCUMENTS YOU NEED TO PRODUCE FOR YOUR TASK.**

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**(continued on the next page)**

**YOU MUST COMPLETE ALL ACTIVITIES  
WITHIN THE SET TASK.**

**PRODUCE YOUR DOCUMENTS USING  
A COMPUTER.**

**SAVE YOUR DOCUMENTS IN YOUR  
FOLDER READY FOR SUBMISSION  
USING THE FORMATS AND NAMING  
CONVENTIONS INDICATED.**

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**ACTIVITY 6: FORMS – You are advised to spend 1 hour and 10 minutes (plus your additional time allowance) on this activity.**

## **NOTE**

- **The structure of the tables provided should not be changed in any way, e.g. do not add validation to the tables, do not change data types.**
- **You will ONLY be required to use tblArtist and tblArt.**

**(continued on the next page)**

## **Activity 6. continued.**

**Create an efficient interface that will facilitate database input by producing:**

- (a) an input form to add a piece of art.**
- **The form should be ready for data entry.**
  - **The name of the piece of art must be present.**
  - **The selling price must be within the specified range.**
  - **The piece of art must be assigned a valid artist.**
  - **Valid data should be appended to the art table, a save message should display and the form should be cleared ready for the next data entry.**
  - **A suitable error message should appear where invalid data has been used.**

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**Turn over**

**Activity 6. continued.**

- (b) an input form to analyse sales and add an artist's rating.**
- **The form should NOT include validation for any fields.**
  - **The form should NOT include an automated routine to save the data.**
  - **There must be a combo box in order to select the artist.**
  - **There must be a combo box in order to select the rating.**

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## **Activity 6. continued.**

- **Once the user selects an artist, information for that artist should be generated and displayed in fields on the form:**
  - **the artist's email**
  - **the total number of pieces of art**
  - **the number of pieces of art sold**
  - **the highest price for a piece of art**
  - **the lowest price for a piece of art**
  - **the total amount of money made from sales.**

**Evidence your interface as screenprints using the given activity6.rtf template.**

**(continued on the next page)**

## **Activity 6. continued.**

**Your screenprints must show:**

- **the DESIGN view and FORM view of all the forms you have created**
- **the DESIGN view of any queries you have created and used with the forms including fields and criteria**
- **the DATASHEET view of any queries you have created and used with the forms**
- **details of any calculations, validation and macros/code you have created and used with the forms.**

**Ensure sufficient information is provided to allow a competent third party to maintain the database.**

**Save the evidence of your interface as a PDF in your folder for submission as**

**activity6\_[Registration number #]\_  
[surname]\_[first letter of first name]**

**(TOTAL FOR ACTIVITY 6 = 14 MARKS)**

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**Turn over**

**ACTIVITY 7: INTERFACE TESTING –**

**You are advised to spend 20 minutes (plus your additional time allowance) on this activity.**

**Test the interface of your relational database using suitable test data (normal, erroneous and extreme as appropriate).**

**You must not add validation to any of the tables.**

**You must provide evidence of FORM LEVEL testing that proves:**

- 1. the art input form is ready for data entry when the form opens**
- 2. the name of the piece of art must be present**
- 3. the selling price of the piece of art cannot be above the top of the range**

**(continued on the next page)**

**Activity 7. continued.**

- 4. the selling price of the piece of art cannot be below the bottom of the range**
- 5. the piece of art must be assigned to a valid artist**
- 6. a record will save in the art table if all of the required data is present and valid**
- 7. these details appear for the artist selected on the sales form:**
  - the artist's email**
  - the total number of pieces of art**
  - the number of pieces of art sold**
  - the highest price for a piece of art**
  - the lowest price for a piece of art**
  - the total amount of money made from sales.**

**Complete the test log to show how you have tested your input forms using the given activity7.rtf template.**

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**Turn over**

**Activity 7. continued.**

**Save your test log as a PDF in your folder for submission as**

**activity7\_[Registration number #]\_  
[surname]\_[first letter of first name]**

**(TOTAL FOR ACTIVITY 7 = 6 MARKS)**

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## **ACTIVITY 8: INTERFACE EVALUATION –**

**You are advised to spend 20 minutes  
(plus your additional time allowance)  
on this activity.**

**Evaluate your interface.**

**You should consider the quality,  
performance and usability of the interface  
you have created in terms of how well it  
ensures:**

### **Art form**

- **the art form is ready for data entry  
when the form opens**
- **the name of the piece of art must  
be present**
- **the selling price of the piece of art  
cannot be above the top of the range**

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## **Activity 8. continued.**

- **the selling price of the piece of art cannot be below the bottom of the range**
- **the piece of art must be assigned to a valid artist**
- **a record will save in the art table if all of the required data is present and valid**

## **Sales analysis form**

- **these details appear for the artist selected on the sales form:**
  - **the artist's email**
  - **the total number of pieces of art**
  - **the number of pieces of art sold**
  - **the highest price for a piece of art**
  - **the lowest price for a piece of art**
  - **the total amount of money made from sales.**

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**Turn over**

**Activity 8. continued.**

**Save your evaluation as a PDF in your folder for submission as**

**activity8\_[Registration number #]\_  
[surname]\_[first letter of first name]**

**(TOTAL FOR ACTIVITY 8 = 6 MARKS)**

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**TOTAL FOR PART B = 26 MARKS**

**END**